## ISSUE SLIP STAPLE AREA (for additional cross references)

| ٠٠٠٠٠             | POSITION              | INITIALS | ID NO. | DATE        |
|-------------------|-----------------------|----------|--------|-------------|
| നാ/               |                       |          |        | <del></del> |
| FEE DETERMINATION |                       |          | 64181  | 1-71.00     |
| O.I.P.            | E. CLASSIFIER         |          | 12     | 2/4         |
| FORMALITY REVIEW  |                       | ĊM       | 71632  | 3/17/00     |
| RESP              | ONSE FORMALITY REVIEW |          |        |             |
|                   |                       |          |        | •           |

## **INDEX OF CLAIMS**

| , | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
|   | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|                   |            |           |                      |               | ÷        | •        | ••       |          | •••• |     | •••• | F        | test     | rict     | eo       |     |          |            | 0                                      | •••••  | ••••      | •••••         | ••••     | ••••• | ••••  | ۱ .       |
|-------------------|------------|-----------|----------------------|---------------|----------|----------|----------|----------|------|-----|------|----------|----------|----------|----------|-----|----------|------------|--|--|-----------|---------------|----------|-------|-------|-----------|
| Claim             |            | _         | _                    |               | Dat      | e        | _        | -        |      |     |      | Cla      | im       |          | _        |     | _        | Dat        | e                                      | _  |           |               |          |       | Cla   | in        |
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|                   |            | 4         | 10                   | $\overline{}$ |          | Н        | _        | $\dashv$ | -    | -   |      | ۳        | 51       |          | _        | Н   | $\dashv$ |            | _                                      | _  | $\exists$ | $\dashv$      | ᅱ        | ŀ     | -     | 1         |
| 2                 |            | 4         |                      | =             | _        | Н        | Н        |          | -    | -   | i    | H        | 52       |          |          | Н   |          | $\dashv$   | -                                      | _  | Н         | $\dashv$      | ᅥ        | ŀ     | -     | 10        |
| <del>2</del> 3    | 1          | 4         | V                    | -             | $\vdash$ | Н        | Н        | Н        |      |     |      | Н        | 53       |          |          | П   | -        |            |  |  |           |               | ᅦ        | ı     |       | 1         |
| 14                | V          |           | Ž                    |               | -        | H        | М        | Н        |      |     |      |          | 54       |          | •        | П   |          |            |  |  |           |               |          |       |       | 11        |
| 5                 | V          | \         | Z                    |               |          |          |          |          |      |     |      |          | 55       |          | ĿI       |     |          |            |  |  |           |               |          |       |       | 1         |
| 6                 | K          | 1         | K                    |               |          |          |          | П        |      |     | ١.,  | Ŀ        | 56       | L        | ļ.,      | Ŀ   |          |            |  |  |           |               | ᅴ        | -     | _     | 10        |
| 7                 | $\bot 4$   | ¥         | <b>V</b>             | Щ             |          | _        |          | Щ        | Ш    |     |      | <u> </u> | 57       | _        | <u> </u> | Н   |          |            | _                                      |  | _         | -             | -        | -     |       | 11        |
| 8                 | +-         | 4         | V                    |               | <u> </u> | H        |          |          |      | _   | -    | -        | 58<br>59 | _        | H        | Н   | 7.       | H          | _                                      |  | $\vdash$  | Н             | $\dashv$ | }     | _     | 10        |
| 9                 |            | 4         | $\boldsymbol{arphi}$ | H             | ⊢        | $\vdash$ | <u> </u> |          | H    | -   | ł    | ⊢        | 60       | _        | ⊢        | Н   |          | H          | Н                                      | _  | -         | Н             | 긤        | ╷╶├   |       | ŀ         |
| 1                 | <b>7</b>   | $\vdash$  |                      | H             | ┝        | Н        | H        | -        | -    | -   | 1    | ┢        | 61       | _        | ┢        | Н   | _        |            |  |  | _         | П             | $\dashv$ | ŀ     |       | 1         |
| 1 12              |            | 1         |                      |               | -        | -        | H        | H        | 15   | -   | ۱ ـ  | 17       | 62       | -        | ┢        |     | Т        |            |  |  | П         | П             |          |       |       | 1         |
| 13                |            | 岁         |                      | -             | ┪        | Η        | H        |          | Г    |     | 1    |          | 63       | ·        | _        | П   |          |            | _                                      |  |           | $\overline{}$ |          |       |       | 1         |
| . 14              | プ          | J         | _                    | Г             |          |          |          |          |      |     | 1    |          | 64       |          |          |     |          |            |  |  |           |               |          |       |       | 1         |
| 15                |            | V         |                      |               |          |          |          |          |      |     | ]    |          | 65       |          |          |     |          |            |  |  |           | L             |          | ļ     |       | 1         |
| 16                |            | I,        |                      |               |          | L        |          |          | L    | L   | 1    | _        | 66       | _        | _        | ┖   | L        | L          | L                                      | L  | Ŀ         | L             |          | ļ     |       | 1         |
|                   | _          | 1         | M                    | L             | L        | <u> </u> | L        | L        | L    | L   | 1    | ┕        | 67       | -        | L        | L   | <u> </u> | ļ          | L                                      |  | -         | H             |          |       |       | 1         |
| 18                | 44         | Ι,        | M                    | }_            | -        | $\vdash$ | ┡        | <u> </u> | L    | L   | ┨    | -        | 68       | ⊢        | ⊢        | ⊢   | ┝        | ├          | ⊢                                      | ⊢  | ┝         | H             | H        | 1     |       | ľ         |
| 19                | -114       | K         | M                    | ₽             | ┝        | ⊢        | -        | 1-       | ┞    | ┝   | ┨.   | ⊢        | 69<br>70 | ┝        | ⊢        | ⊢   | ├─       | $\vdash$   | H                                      | ┝  | ⊢         | Н             | H        | ŀ     | _     | ŀ         |
| 20                |            | H         | М                    | ╀             | ┝        | ┝        | ⊢        | ├        | ┞    | ┝   | 1    | ⊢        | 71       | ⊢        | ⊢        | ╁   | ┝        | $\vdash$   | ┝                                      |  | ⊢         | H             | -        |       | _     | 1         |
| 22                |            | Ь         | K                    | ╀             | ┝        | ├        | ⊢        | ⊢        | -    | -   | ┨    | -        | 72       | ┝        | ╁╴       | ┢   | -        | H          | $\vdash$                               | ┝  | -         | H             | Н        |       |       | 'n        |
| 2                 | -13-2-     | J         | Y                    | ∤─            | ┢        | +        | H        | ┢        | ╁╌   | H   | 1    | $\vdash$ | 73       | H        | ┢        | t   | Н        | <u> </u>   | -                                      | Н  | ┢         | T             | Г        |       |       | 1         |
| 20                |            | Ż         | 17                   | 1             | $\vdash$ | -        | T        | T        | 1-   | T   | 1    |          | 74       | Г        | T        | Г   | ŀ        |            | Г                                      |  |           |               |          |       |       | 1         |
| 25                | 51.7       | J         | V                    | ↟             | Τ        | T        |          | Г        |      |     | 1    |          | 75       |          | ·        |     |          |            |  |  |           |               |          |       |       | Ī         |
| 26                | <b>1</b>   | 17        | V                    |               |          |          |          |          | Γ    |     | ]    |          | 76       |          |          |     | L        |            | L                                      |  | L         | 乚             |          |       |       | þ         |
| 15.               |            | V         | $oldsymbol{ u}$      | 1_            | L        |          | _        | L        | L    | L   | 1    | $\vdash$ | 77       | L.       | L        | ļ., | L        | Ļ          | _                                      | ļ_   | <u> </u>  | ļ_            | _        |       |       | 1         |
| 26                |            | V         | V                    | _             | ┞-       | ┡        | L        | L        | L    | ┞-  | 1    | ⊢        | 78<br>79 | ┡        | ┡        | ╁   | ┝        | ⊢          | ├                                      | -  | ├         | ┝             | <u> </u> |       |       | ין        |
| 21                |            | ¥         | V                    | 1             | ╀        | ⊢        | ┝        | ╀        | ┡    | ╀   | 1    | ⊢        | 80       | ١.       | ⊢        | ╀╌  | ⊢        | -          | -                                      | ┝  | ┝         | ╁             |          |       |       | h         |
| 3                 | 4×         | V         | F                    | ╄             | ⊢        | ╀        | ⊢        | ╁╾       | Ͱ    | ╀   | 1    | $\vdash$ | 81       | $\vdash$ | ╁        | ╁╌  | ⊢        | ╀╌         | ┝                                      | ┝  | ┝         | ┼-            | H        |       |       | h         |
| 3                 | ÷          | ľ         | E                    | ╁             | ╁        | ╁        | ╁        | H        | H    | ┢   | ┪    | $\vdash$ | 82       | 1        | 十        | +-  | H        | $\vdash$   | ┝                                      | H  | ╁         | 1             | $\vdash$ | 1     | _     | h         |
| 1 3               | <u> </u>   | Ð         | E                    | -             | ╁        | t        | t        | ╁╴       | t    | -   | 1    | Г        | 83       | T        | T        | ✝   | T        |            | T                                      | Τ  | 1         |               | Г        | 1     |       | ħ         |
| 3                 |            | 17        | F                    | ₹             | T        | T        | ✝        | Τ        | T    | Τ   | 1    | Г        | 84       | T        | П        | 1_  | Г        |            |  |  |           |               |          | ] [   |       | ŀ         |
| 3                 |            | 17        | 1                    | 1             |          |          | Ī        |          |      |     | ]    |          | 85       |          |          | Ŀ   |          |            | 匚                                      | L  | L         | L             |          |       |       | ľ         |
| 3                 |            | Ŀ         | <u> </u>             |               | L        |          | Ĺ        |          | L    | L   | 1    | L        | 86       | Ľ        | L        | ╄   | L        | _          | Ļ.                                     | L  | L         | 1             | L        |       | _     | ħ         |
|                   |            | 17        |                      | 1             | L        | L        | Ļ        | ╙        | ┞    | Ļ., | 4    | $\vdash$ | 87       | -        | ↓.       | ╄   | ┞        | ļ.,        | Ļ                                      | ┞  | ╀         | ┞             | L        |       | _     | þ         |
|                   | <b>』</b> √ | 1         | =                    | 1             | ļ.,      | ╀        | ╀        | ╀        | ╄-   | ╄   | -    | $\vdash$ | 88       | -        | ╀        | ╀   | ⊢        | ┝          | ┞                                      | ├-   | ┝         | ┝             | ⊢        |       | _     |           |
| 3                 |            | ╀         | ╀                    | ╄             | ╄        | ╀        | ╀        | ╁        | ╀    | ╀   | -    | $\vdash$ | 90       | +        | ╀        | ╂   | ⊢        | ┝          | ┝                                      | ├  | ╁         | ⊢             | ┢        |       | -     | ţ         |
| 4                 |            | ╀         | ╀                    | ╀             | ╀        | ╄        | ╁╴       | ╀        | ╀    | ╀   | ┨    | -        | 91       | ٠.       | ╁        | ╀╌  | ┝        | ┞          | ┢                                      | ┝  | ╀         | ╁╴            | ┝        |       | -     | ľ         |
| 4                 | _          | ╀         | ÷                    | ╀             | ╀        | ╀        | ╀        | ╀        | ╀    | +   | ┨    | -        | 92       |          | ╁        | +-  | $\vdash$ | ╁          | ╁                                      | ╁  | ╁         | ╁             | $\vdash$ |       | -     | 1         |
| 4                 | <u> </u>   | ╀         | ╁                    | ╁╴            | ╀        | ╁        | +        | +        | ╁╴   | +   | ┨    | $\vdash$ | 93       | -        | t        | 十   | +        | t          | 1                                      | +-   | $\vdash$  | †             | $\vdash$ |       | -     | ľ         |
| 1                 | -          | ╁         | +                    | +             | +        | +        | +        | ╁        | t    | t   | 1    | $\vdash$ | 94       | -        | t        | t   | T        | T          | T                                      | T  | T         | 1             | T        |       | Т     | +         |
| 1 4               |            | †-        | +                    | +             | +        | t        | ۲        | T        | 1    | t   | 1    | 一        | 95       | _        | ✝        | 1   | T        |            | T                                      | 1  | T         |               | T        |       |       | İ         |
| 14                |            | $\dagger$ | †                    | T             | T        | T        | T        | T        | 1    | T   | 1    |          | 96       |          | Γ        | Ι   | Γ        | Γ          | Γ                                      |  |           |               | Γ        | ]     |       | ŀ         |
| 4                 | 7          | T         | T                    | Τ             | T        | T        | Ι        | I        | Ī    |     | ]    |          | 97       |          | Ι        | Γ   |          |            |  | Γ  |           |               | Ĺ        | ] .   |       | ŀ         |
| 4                 |            |           | L                    | $\Gamma$      | L        | Γ        | L        | I        | I    |     | ]    |          | 98       |          | Ļ        | Ļ   | L        |            | Ĺ                                      | 1  | L         | L             | L        |       | L     | Ī         |
| 4                 | _          | L         | 1                    | L             | 1        | $\perp$  | ╄        | Ļ        | ╄    | ╀   | 4    | -        | 99       |          | +        | ┼-  | ┼-       | ╄          | ╀                                      | ╄-   | ╀         | ╀             | ╀        |       | ļ.    | 1         |
| <u>5</u>          | 0          |           |                      | L.            | L        | L        |          | L        | L    | _   | J    | L        | þο       | 4        | _        |     | Ц.       | <u>i .</u> | _ـــــــــــــــــــــــــــــــــــــ | <u>.                                    </u> |           | ـــ           |          | J     | Ц_    | 1         |

| Cla   | im         |                |              |          |          | Dat      | e        |  |          |          | ٦        |  |  |  |
|-------|------------|----------------|--------------|----------|----------|----------|----------|--|----------|----------|----------|--|--|--|
| Final | Original   |                |              |          |          |          |          |  | !        |          |          |  |  |  |
| Ē     |            | Ш              | Ш            |          | L        |          |          |  | _        | Ц        |          |  |  |  |
| _     | 101        |                | Н            | _        | -        | ļ        |          |  | _        | Ц        | _        |  |  |  |
| _     | 102<br>103 |                | H            | -        | $\vdash$ | H        | Н        | _  | _        | Н        | Н        |  |  |  |
| _     | 104        | _              | Н            |          | ┝        | ⊢        | H        | -  | _        | Н        | H        |  |  |  |
|       | 105        |                |              | ┢        | Η.       | H        | _        | Н  | Т        | H        | -        |  |  |  |
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| _     | 107        |                |              |          |          |          |          |  |          | Ŀ        |          |  |  |  |
| _     | 108        | _              |              | L        | L        | L        | L        | L  |          | Ц        |          |  |  |  |
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|       | 113        | Г              |              | Г        | ┪        | ┢        | -        | H  | ÷        |          | <u> </u> |  |  |  |
|       | 114        | Г              |              |          |          |          |          |  |          |          |          |  |  |  |
|       | 115        | Г              |              |          | L        | Ĺ        |          | 匚  | Ĺ        | Ľ        | Г        |  |  |  |
| _     | 116        |                | _            | <u> </u> | ┡        | <u> </u> | <u> </u> | <u> </u>   | L        | L        | ┡        |  |  |  |
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| _     | 120        |                | ╁            | ⊢        | ╁╌       | ┝        | ╁        | ⊢  | ⊢        | ╁        | ⊢        |  |  |  |
| _     | 121        | -              | ┝            | ┝        | ┝        | ╁        | ⊢        | ⊢  | ┝        | ╁╌       | H        |  |  |  |
|       | 122        |                | ╁            | H        | t        | +-       | ┢        | ┢  |          | ┢        | t        |  |  |  |
|       | 123        |                | T            | T        | T        | t        | Ι-       | <del>                                     </del> | $\vdash$ | $\vdash$ | T        |  |  |  |
| _     | 124        |                | Г            | Г        |          |          |          |  |          |          |          |  |  |  |
|       | 125        |                | L            | L        |          |          |          | L  | L        | L        | L        |  |  |  |
|       | 126        |                | L            | Ļ        | ┡        | Ļ        | ┡        | ļ_   | <u> </u> | ╄        | Ļ        |  |  |  |
|       | 127        |                | ┡            | ┡-       | ╀        | ╀        | ⊢        | +-   | ┞        | ╄        | ╁        |  |  |  |
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| -     | 130        | _              | H            | ╁        | ╁        | ╁        | ╁        | ╁  | H        | t        | t        |  |  |  |
|       | 13         |                | t            | t        | ╁        | ✝        | t        | t  | T        | T        | T        |  |  |  |
| _     | 132        |                | T            | Г        | T        | 1        | ⇈        | Τ  | T        |          | Τ        |  |  |  |
|       | 133        |                | L            |          |          |          | L        | 匚  |          | L        | Γ        |  |  |  |
| _     | 13         |                | L            | L        | L        | L        | L        | 上  | L        | L        | L        |  |  |  |
|       | 139        | <u>_</u>       | <del> </del> | Ļ        | ╀        | ╄        | ╄        | ╄  | ╀        | 4        | ╀        |  |  |  |
|       |            |                | ╀            | ╀        | ╄        | ╀        | ╀        | ╀  | ╀        | ╁        | ╀        |  |  |  |
| _     | 138        |                | ╁            | ╁        | ╁        | ╁        | ╁        | ╀  | ╁        | ╁╌       | ╁        |  |  |  |
| -     | 139        | ╁              | ╁            | t        | ╁        | t        | ✝        | ╁  | t        | t        | t        |  |  |  |
|       | 140        | <del>,</del>   | T            | T        | T        | T        | ✝        | Τ  | T        | T        | T        |  |  |  |
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| _     | 14         | <b>a</b>       | T            | T        | T        | T        | Τ        | T  |          | T.       | Ī        |  |  |  |
|       | 14         |                |              |          | L        |          | L        |  | Γ        | oxdot    | L        |  |  |  |
| _     | 14         |                | L            | L        | L        | L        | L        | L  | L        | $\perp$  | L        |  |  |  |
|       | 14         | <u> </u>       | $\perp$      | L        | L        | $\perp$  | ╄        | $\perp$  | ↓_       | ╀-       | ╀        |  |  |  |
| _     | 140        | <u> </u>       | ╀-           | 1        | ╀        | ╀        | ╀        | ╀  | ╀        | ╀        | ╀        |  |  |  |
|       | 14         | 1              | ╀            | ╀        | ╀        | ╀        | ╀        | ╀  | ╀        | ╀        | ╀        |  |  |  |
| _     | 14         | 1              | ╁            | ╁        | ╁        | ╁        | ╁        | +-   | 十        | 十        | ╁        |  |  |  |
| -     | 15         | <del>d</del> - | ╁            | +        | ╁        | 十        | 十        | T  | T        | T        | T        |  |  |  |
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